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Water-Data Report 2008

**02091000 NAHUNTA SWAMP NEAR SHINE, NC**

Neuse Basin  
Contentnea Subbasin

LOCATION.--Lat 35°29'20", long 77°48'22" referenced to North American Datum of 1983, Greene County, NC, Hydrologic Unit 03020203, on right bank at bridge on Secondary Road 1058, 2 mi upstream from Appletree Swamp, 3.5 mi north of Shine, and 8 mi northwest of Snow Hill.

DRAINAGE AREA.--80.4 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1954 to current year. Monthly discharges only for some periods, published in WSP 1723.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 50.74 ft above National Geodetic Vertical Datum of 1929. Prior to April 1, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.—No estimated daily discharges. Records fair. Maximum discharge for period of record, on basis of slope conveyances measurement of peak flow; gage height from floodmarks. Minimum discharge for period of record also occurred October 8, 1954, August 11-15, 2002. Minimum discharge for current water year also occurred August 10.

## Water-Data Report 2008

02091000 NAHUNTA SWAMP NEAR SHINE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	4.9	15	13	89	58	70	78	73	15	2.7	3.5	5.6
<b>2</b>	4.6	13	12	66	114	63	105	57	13	2.4	3.3	4.3
<b>3</b>	4.8	13	12	54	70	57	74	47	12	2.3	3.1	3.6
<b>4</b>	5.0	12	12	48	55	57	73	42	11	2.5	2.7	3.1
<b>5</b>	5.0	11	12	46	49	437	269	44	10	2.4	2.5	3.0
<b>6</b>	6.0	11	11	45	45	347	700	39	9.3	2.5	2.4	112
<b>7</b>	8.9	10	11	42	42	237	432	34	8.6	4.7	2.5	110
<b>8</b>	8.8	9.8	11	39	37	583	200	30	7.8	5.9	2.2	29
<b>9</b>	7.3	10	12	39	34	497	149	34	7.3	4.0	2.0	26
<b>10</b>	6.4	10	12	37	32	212	121	34	6.9	7.4	2.0	124
<b>11</b>	5.8	10	12	38	29	150	101	30	6.4	7.1	3.0	43
<b>12</b>	5.0	9.9	12	39	28	119	96	36	6.7	6.2	2.6	23
<b>13</b>	4.6	10	12	35	96	102	197	31	6.6	4.8	3.9	16
<b>14</b>	4.3	11	12	33	149	90	122	25	6.2	3.9	9.0	13
<b>15</b>	4.2	10	12	30	89	81	90	23	6.3	3.9	6.3	11
<b>16</b>	3.9	11	197	29	66	214	73	26	7.7	3.5	4.7	9.6
<b>17</b>	4.1	11	82	34	55	164	65	27	6.7	3.0	4.2	17
<b>18</b>	4.1	11	38	52	670	106	60	22	5.7	2.6	3.8	15
<b>19</b>	3.9	11	27	49	380	97	53	27	5.0	2.3	3.4	11
<b>20</b>	4.0	11	23	98	136	92	63	25	4.6	2.5	2.9	9.1
<b>21</b>	3.5	11	21	65	94	77	69	40	4.4	3.3	2.7	8.3
<b>22</b>	5.3	11	19	53	158	72	67	30	4.4	3.2	2.4	7.9
<b>23</b>	3.9	11	19	51	198	67	58	22	4.3	16	2.1	7.5
<b>24</b>	6.2	11	23	48	136	60	51	19	4.0	49	2.3	7.2
<b>25</b>	59	11	21	41	102	57	44	18	3.4	19	2.4	8.2
<b>26</b>	46	12	332	38	106	54	39	16	2.8	11	2.3	558
<b>27</b>	129	13	292	37	149	51	38	15	2.8	7.5	3.2	332
<b>28</b>	79	13	99	35	99	51	218	15	2.7	6.0	13	120
<b>29</b>	34	13	71	34	77	48	180	29	2.4	4.9	33	68
<b>30</b>	22	16	97	37	---	47	103	22	2.8	4.0	10	49
<b>31</b>	18	---	150	35	---	64	---	17	---	3.6	6.9	---
<b>Total</b>	511.5	342.7	1,689	1,416	3,353	4,423	3,988	949	196.8	204.1	150.3	1,754.4
<b>Mean</b>	16.5	11.4	54.5	45.7	116	143	133	30.6	6.56	6.58	4.85	58.5
<b>Max</b>	129	16	332	98	670	583	700	73	15	49	33	558
<b>Min</b>	3.5	9.8	11	29	28	47	38	15	2.4	2.3	2.0	3.0
<b>Cfsm</b>	0.21	0.14	0.68	0.57	1.44	1.77	1.65	0.38	0.08	0.08	0.06	0.73
<b>In.</b>	0.24	0.16	0.78	0.66	1.55	2.05	1.85	0.44	0.09	0.09	0.07	0.81

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2008, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	52.5	61.2	72.8	115	136	138	101	59.6	50.8	56.9	64.8	80.9
<b>Max</b>	473	402	184	261	327	311	252	277	243	395	360	1,083
(WY)	(1965)	(2007)	(1958)	(1993)	(1998)	(1983)	(1974)	(1989)	(1995)	(1965)	(1974)	(1999)
<b>Min</b>	2.26	11.2	19.5	29.4	34.6	33.7	19.1	10.8	5.35	3.10	4.22	2.58
(WY)	(1955)	(1987)	(2002)	(2001)	(1988)	(1986)	(1986)	(1986)	(1986)	(1987)	(2002)	(1954)

**SUMMARY STATISTICS**

	Calendar Year 2007		Water Year 2008		Water Years 1954 - 2008	
<b>Annual total</b>	18,179.2		18,977.8			
<b>Annual mean</b>	49.8		51.9		83.1	
<b>Highest annual mean</b>					150	1965
<b>Lowest annual mean</b>					22.9	1986
<b>Highest daily mean</b>	491	Jan 22	700	Apr 6	7,000	Sep 17, 1999
<b>Lowest daily mean</b>	3.5	Aug 21	2.0	Aug 9	1.0	Oct 7, 1954
<b>Annual seven-day minimum</b>	4.0	Oct 15	2.3	Aug 4	1.1	Aug 9, 2002
<b>Maximum peak flow</b>			926	Feb 18	<sup>a</sup> 23,000	Sep 17, 1999
<b>Maximum peak stage</b>				9.16	Feb 18	<sup>a</sup> 21.00
<b>Instantaneous low flow</b>				<sup>a</sup> 1.8	Aug 9	<sup>a</sup> 1.0
<b>Annual runoff (cfsm)</b>	0.619		0.645		1.03	
<b>Annual runoff (inches)</b>	8.41		8.78		14.04	
<b>10 percent exceeds</b>	131		119		173	
<b>50 percent exceeds</b>	19		19		43	
<b>90 percent exceeds</b>	5.3		3.3		10	

<sup>a</sup>See Remarks.

